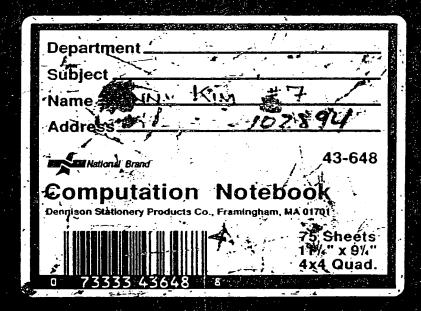


Ruben EXHIBIT #90



Ruben EXHIBIT 2090 Ruben v. Wiley et al. Interference No. 105,077 RX 2090

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TNT- HEGUF73/HTPAN/HTACISC/HPDOM98

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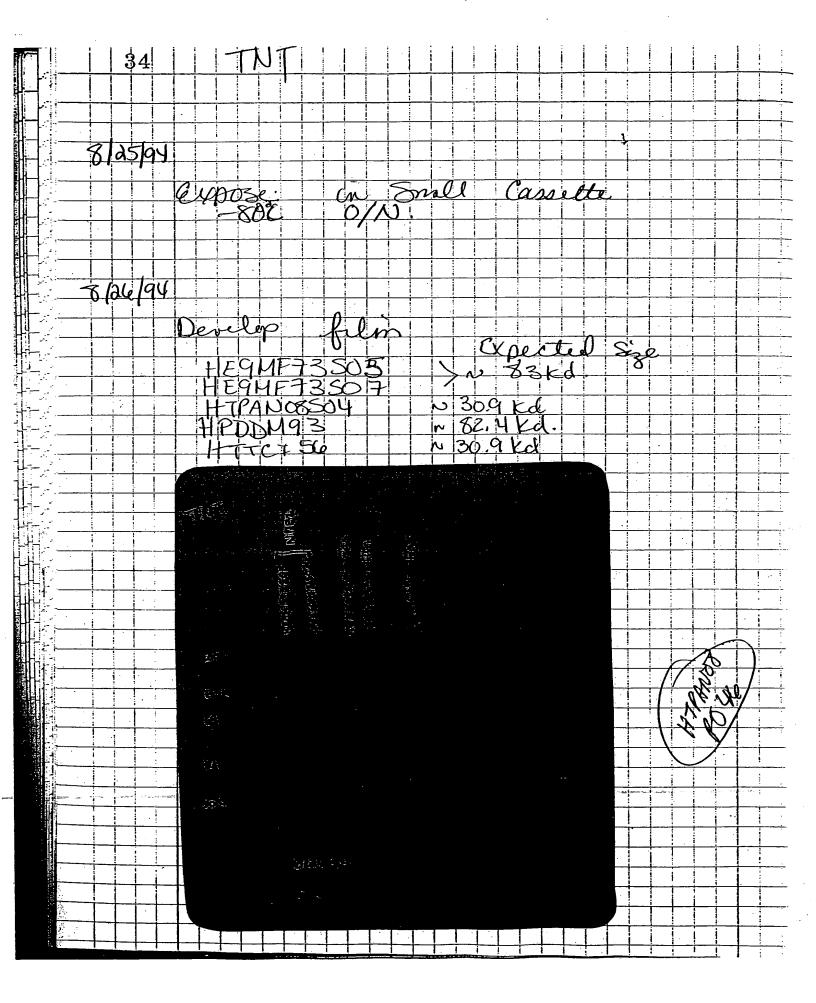
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elnoubate 30°C 1/2 hrs.

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FIX bel 20% methand 10% Acetic Ace Amplify 30 min 37°C. Dry ogel 70°C 21tz mrs

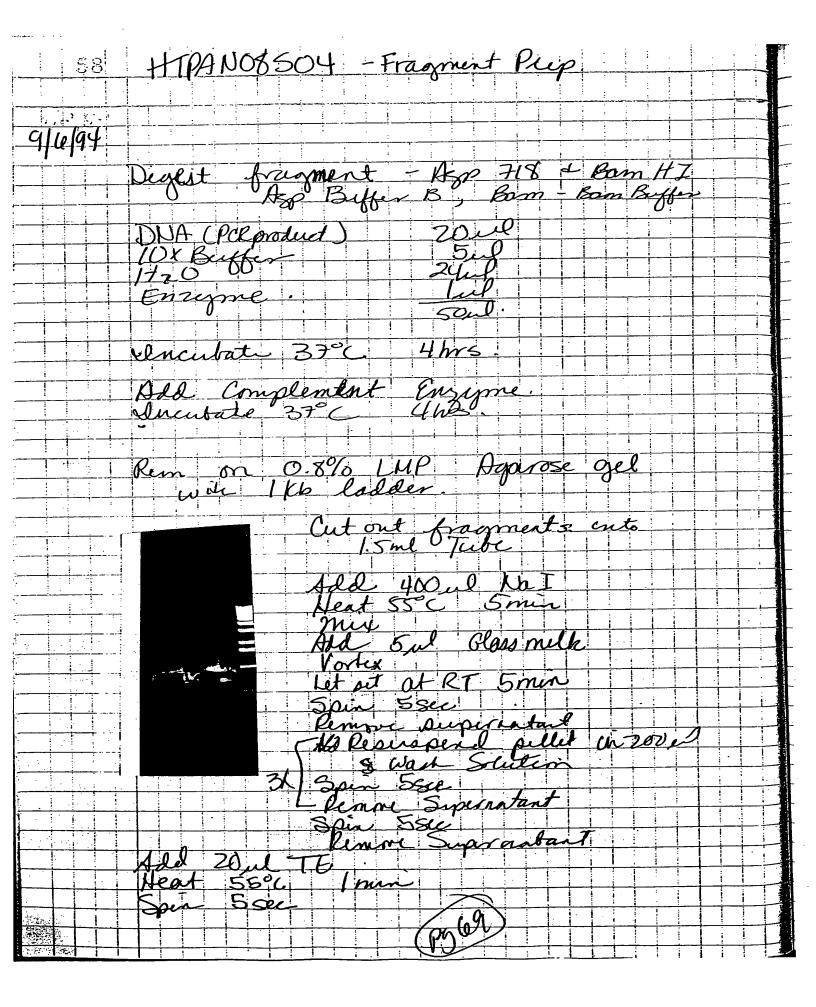


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| Spoles Supernature The Son with 1000 DBT |
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(fragnent pup preceal HeroTyr 8/31/94 Supernatant to Transfer Ikbladder. in Wrong HEZOZYZ X3/R3 HPRCCGI Boiling 0 alnubate 37°C 1120 50 ul Drogst HTPANOSSOY (Fas legonal Be DNA Coldungful 0X# 2 ELO RJ Sucubate 37°C Xho J HZQ! Continue

46 Fragment pup HIPANOSSOY / HPRCCA 1 8/31/94 (HTPANOS 8534) digist on gel Does not book like we have Complete Dispoten : complete Continue to digst O/N at 37°C 9/194 Check Digisto on 1% get with 1 Kb ladder. HTMN08304 looks like it is almost fully Digested. HPECC91 does not look degeted Clean up DNA and try ages 2x phenol extract w/earl Volume 24 chloroform actract w/ equal Volume Elnanol / 3M Na Actate preceptate DNA IX 70%, Ethanol wash upend in 50 ul TE Set up Digist ANG //)X#7 Moutate at 372 HOO! Yho. Ecoff

| | HTPANOSSO4 - Protein - fragment Pup. 157 |
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| | 9/2/94 |
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| | 720 Imin |
| | 72° (7/2 min 4° C Hold |
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| | 13 6 PEG / 1.64 Wace |
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| | Remove Supernaturt |
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| 1 | Reproperd in 100ml TE |
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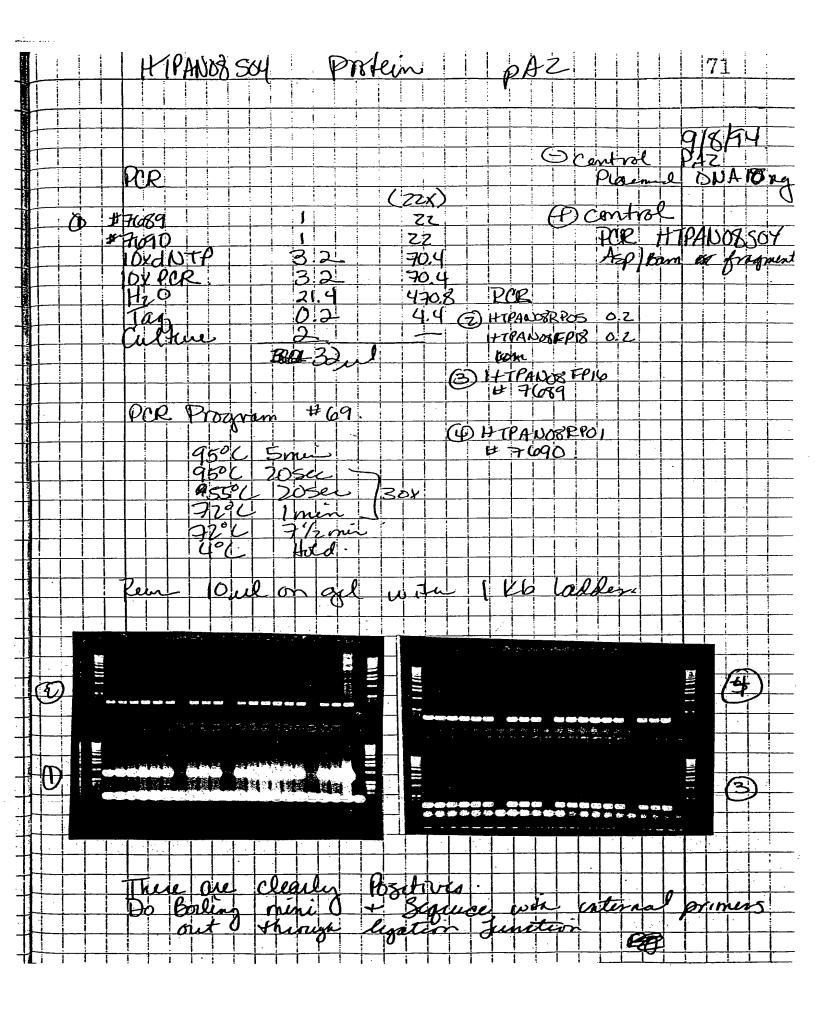
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| HTPAINSOU-PAR Protein Prep! 69] |
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| 9/10/94 |
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| Transfer Supernatant to Arest Tube. |
| Alla Represend pellet in 10 ulTE |
| Spin 5.8cc |
| Transfer Supernatant to fresh tube. |
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| Set up legations word PAZ Ap/Ban |
| Set up legations word PAZ Ap/Ann digist - (See per (e7) |
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| 917194 |
| Than DH50 Chemically Compilent Cells |
| Ald Will of Cells ont fresh tutes Add Will of Rightion Right Mus openfly Oucutate on we Ihr. |
| alace on ice |
| Add Hour LB. Lucubate 37°C Ihr. Plate onto LB + Amp Plates. |
| D HTPANOSSOY ASP/Barn + PAZ ASP/Barn -50 +200ml |
| - (3) HTPANOSSOY Sam (PSF + pl) CNSP (Nam) (4) HTPANOSSOY Bam (Asp + pAZ Bam (Asp - 100ml) |
| (a) HTPANOSSO4 Borm / PSD - 200ml EDDA2 ASP/Rom - 200ml B) AD Born / ASP - 200ml |
| DLig Run only - 200ml D 5 mg PAZ Plasmid DW - 200 l W M DH SX Cells only - 200 l |
| lucubate 37°C. 0/N. |
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| Insculate Colonies ento 1 Pt Amp in The Well diew Oncertation of 2700 Warration offices |
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| VCR TO Check (maests) |



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| 72 | HTPANOSSOY into pAZ. | † 📑 |
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| | <u> </u> | |
| 918/94 | <u> </u> | |
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| ₫ <u></u> | Danulate 5 ml TB+ Amp with all the | |
| 1. | (1) Clones - | |
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| | Shoutate 37°C O/N whatin | |
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| 919194 | | |
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| | Boiling mini preps | |
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| | Spin and Of Culture in Int Tubes | |
| 1 | Plan out Descript ! | 14 |
| | Resuspend sellet in 450 ul of | |
| | Resuspend pullet in 450 ul of 5TET+ Rhase + Lypogene | |
| - | 1140.00 | |
| - | Spin 10 men | |
| | Remore pellet w/ toothpick Add 750 pl of 13% PEC-800/1641has | · |
| - | Vortex well | |
| 4- | Spin 10 min | |
| 2 - | Penyare reservations | <u> </u> |
| | Add wow end 7010 Ethanol | - |
| | Spin 5mi | |
| | Remove supernatant | <u> </u> |
| -, | Allow Pellile to des | |
| -, | resuspend in 150 ulof TG. | · |
| £ | I ken Julos ogli with 1 to ladden | |
| | and pAC (250mg) | |
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| ļ., | Digest to make su | 1 |
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| | HTPAN 28504 - pAZ Booce. Vivus. 81 |
|--------------|-------------------------------------------------------------------------|
| | (P)72 - PBZ TOOLE. VIVW. 81 |
| | 7/7/99 |
| 4 | HTPANOS BOI - 17 Digist with Rom (Asp. |
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| | DUA 5,1 |
| | H ₂ O 216 3633 |
| | bom/Asp 0.2/0.2 3.4/3.4 |
| 2 | 20ul |
| | Elecutate 37°C 20 hrs. |
| <u>: :</u> : | Rem 10 ul on gel with 1kb lillen |
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| | They all look correct. |
| | Submit for |
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| | Seguence and |
| | sites Ose DK |
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| - 13 | Subject in 96 Well dish |
| | HIPANOSSOY HTPANOSSOY BOZ- / Use Primers: FP03 PP14 ROZ- / LP05 FP16 |
| | B03 P06 FA7 |
| | BOY 1807 198 |
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| | freeze Glycerolog BOI-BIT- |
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| 82 | HTPANOSSOY-Boxa Virus | FAS | Maxi Prep |
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| 9/12/94 | | Amp | |
| | Wide cycles Stock. HIPANOS BO2 HIPANOS BO2 | | |
| | Incubate 37°C 0/N W | Jaeration | |
| 91394 | | | |
| | Spin Cells 18thy 4500 rpm | 2 01+ RNOW | |
| | Resuspend Pollet Par Lit Adel 10 ml Par Lit att RT 5 min | P3 me | |
| | let sit on ce 20 mg Spin 4500 pm 15 mg | n Jone | DB7 |
| | Wash Collins OC Buffer | gr. Ken un | pe |
| | Elite DM por panel. 0.7 1 Mil Well GSA Rotor | James (| 10. Sal |
| | Poin of pupiretait & Add 10/5 ml 70% of | hand, Cl | ce |
| | Spr 13/10 / Out | | |

HTPANOSSOU-PAZ Navi Prep 9 BAY upenikal bryat 0.1179 0.0760 0.0188 1.7326 0.5772 1.18 الما وعد 1.309 0.0847 0.0170 1.6834 0.5940 1.31 Store 4°C in Plasmed Box. Will need to do IP - Transfection 0. Tulas plasmed

HEZOITE 97 B+ Ampt LIG They PCR ung the (DMI3R + FP10 (2) RF01 + FP09 -(3) MI3R+ FP03 ~500 bp ~ 430 bp. 1040 bp m/32. FPID. Fect 1: IOX ACK 0.2 94 OF 21.4 577.6 01.3 5751 Recue @Control HEZOI42 planie @ Control Azo Ren PCR prog #69

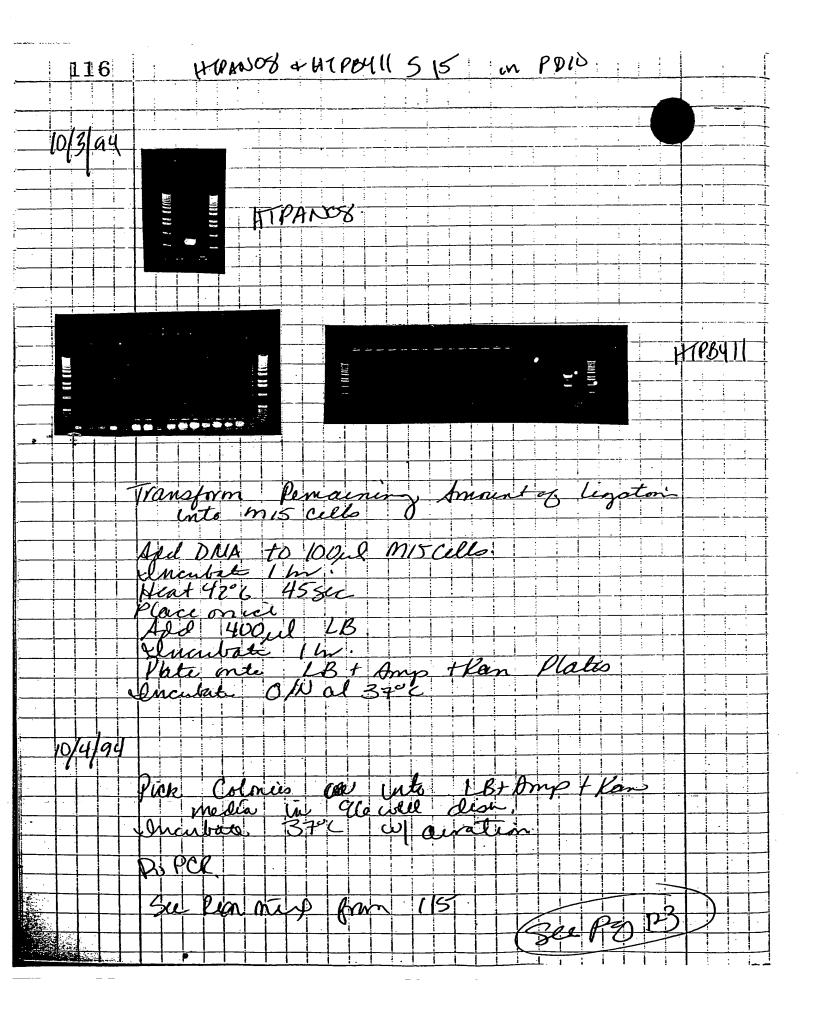
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| | HTPADO85043'Xbar/5'Bom |
| | DNA HTPANOSSOY |
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| | 2502 0.3 249 0.3 2502 0.3 2500 0.3 |
| | H20. 78.1 H20 78.1 |
| | 100 100 100 100 100 100 100 100 100 100 |
| | Do 10 Runs of each And I regatue control. |
| | PCR Bog # 69 95° 5 meri |
| - ! | 105°C 2050C 304 |
| 1 | 72°6 71/2 min. |
| | U°C hold. |
| | Run 5ul on gil with 1 kb ladder |
| | -HTPANO8504 ~ 800 bp |
| | -HTPBY11515 N 24006p |
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| | Spin Domin |
| | All I'm 70% Hrind |
| | Pemore Supernatant |
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| 112 | HIPBYLLSAG & HTPANOBSOY in PDID |
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| | 0 5/00/ 1/10 |
| | Run on 0.89% LHP gel |
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| | Company Delivery and the second secon |
| | let Sit at RT Jmin |
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| | Resuspend pellet in |
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| 114 HTPANOSSOY ONTPBYISIS IN PDIO | + |
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| (3) H (1984) 1 S15 24 Kb Bam/Kb | + |
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| DNA Frament + Victor. | 十 |
| DNA Fragment + Victor. | |
| #10 (1) 44 + DIO Bam/xbu Zul | - |
| #7 (D) UVI bDID Vb Bam Cut | _ |
| #3 6 Gel + pDIO Ram/Kbm Zul | + |
| #4 (2) Cul + pD10 X balkon Zul #5 (3) Yuh + pD+0 Ban / 1/20 Zul | + |
| #3 & 60 + pD10 Bam/Xbm Zul #4 (D) Gul + pD10 X ha/Bam Zul #5 (3) Yul + pD10 Bam/Xbm Zul #6 (3) Yul + pD10 Vba/Bam Zul | |
| #7 0 4ul + | |
| #8 (2) (but + | - |
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| Grow up Ma | PP PO Pam / Xtz | - femilieta | |
| 0/5/94 le oet up dega HTPANO8 0.9 | timo 2 | 3 4 | 15 |
| 14 TO AU 08 1.6 HTP BY 11 St5 PD 10 Bum/XD0_ | 2 2 2 2 | 2 2 2 2 | |
| Ty light HZO. | 9 7 | 7 15 | 17 |
| Quentate 16° | C 0/N. | | |
| olulad | MIS CUIS | | |
| Transform (a) | MIS CULS | | |

HIMNOS+ FOHTPBY IN PDIO 10/7/94 Remake PD10 Vector. Remake chosent fraguen Digest POID HzD Born /Ma

126 Run on 0. 6% Glass milk 5 min Perusand pell ore supernatant issend pellet 20 ul Combine into I freshtibe Make more

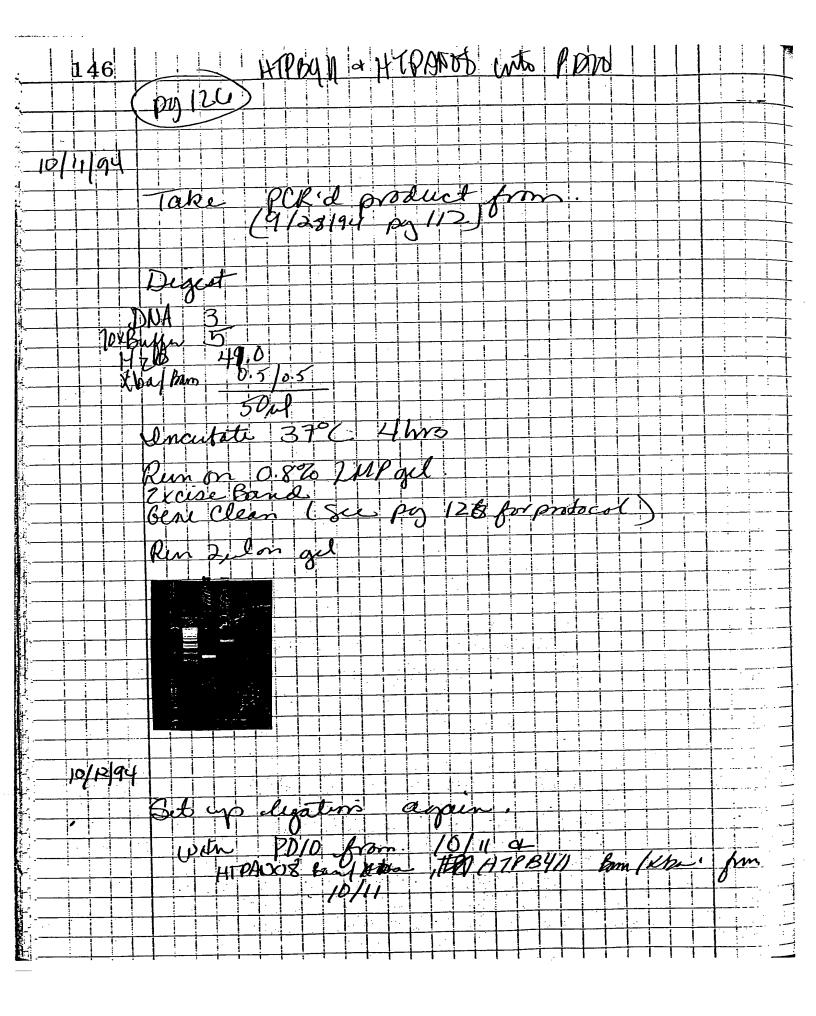
| <u></u> | Hr2cca1 HPDDM93 137- |
|-----------------------------------------|-------------------------------------------------------------------|
| - | 10/13/94 |
| 1 | Develop film. |
| | Pick & Clones into 500 il Sm Buffer. Only HPPCC91 seemed to work- |
| | HPDM 93 - Nothing Let up |
| <u> </u> | Try HPDDM Again See pg 14D |
| | 10/18/94 |
| #- | Do PCR on @ clones from 1º phage. |
| | 10x PCR 3.5 420 1 |
| # | (5235) FR3 2 240 |
| # · · · · · · · · · · · · · · · · · · · | H20 20.7 2484 phay 5 |
| <u></u> | 35ml 30ml/tube. |
| # | Ren PCR Brogrown # 69 |
| | 95°C 5mm Be Use HPRCE93 |
| | 72°C 1min up 400 as |
| # | 40 Hold |
| | Run 10 pl on 120 Agriss get with |
| 17. | 1kb ladder |
| | 10/15/94 |
| | (O(1317) |

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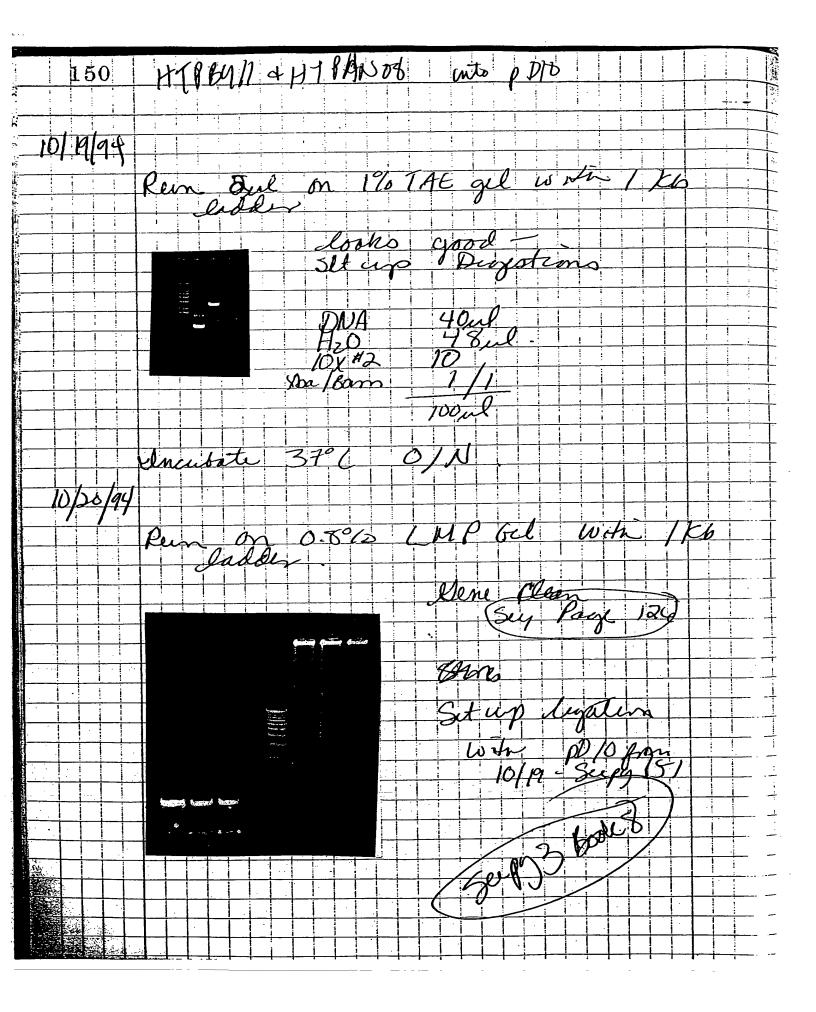


HILBYL 147 10 /12/94 HTPANOS D.9 HTPANOBIG HTPBYII PDID BYXDD 7 HZO THEY 2 155 1 T4 Tegase. 20 20 ھح docubate 1602 0/1 10/13/94 Transfor M15 cells mpetent USE 10ng PD10

| 148 | HTPBYH 2 H TOAN | of wh PDVO | |
|-------------|-------------------------------------------------------------------------------------------|--------------------------|------------|
| 10/14/94 | | | |
| | # 0 0 0 | | |
| F | to look OK- | letovalore | |
| Pre | lates with PD/O l has many Cols so 100 of ence (200 el go 2 B + Amp cuture at 37 C | Ine onto | |
| - POX | | Cojaevacion | |
| | PACO8 | HTPBY// | 0.2 |
| 250 10x | ONTR 32 | 7507 10x PCR 104NH | 0.2 |
| Angel Color | 100 0 2 0 2 0 2 0 2 0 2 0 2 0 2 0 2 0 0 2 0 0 2 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 | Tay | 0.2 |
| C | Hure 32 | Culkine | 2 32 wl |
| Per | | | |
| | 95°6 5min | | |
| | 35°1 705ec 300 72°1 /min | | |
| Rem | loud on all with | KD Caller - | |
| No | then Showed up | | |
| | Ry Anav | | |
| | | | |
| | | | |

| HIBY | 11 CHTPAN | Sos wito PE |)/0 | 1 149 |
|----------------|---------------|-------------------------------------------------|----------|----------|
| | | | | |
| <u>:</u> | | | <u> </u> | 10/19 |
| 0 | | | | |
| PCR (do | mperfly frag | nung Ayan | · | |
| | | | <u> </u> | |
| 1) HTPANO | 8 | (Z) H [PB4] | 1 | |
| 749.9 | 0.2 | 7501 | 6.7 | |
| | 0.2 | 2507 | 0.7 | |
| 2500 10xPCL | 10,0 | IOX PCR | 10 | <u> </u> |
| joxdNTP | 10.0 | 10 VOP"1 | 78.3 | |
| OUPCATION | (CONNY) | Tou | 0.2 | |
| Nio | 78.3 | Do | 1 | |
| | 1001 | | 100ml | |
| | | | | |
| Run PC | 5 tules of | lach | | |
| Run PU | | | | |
| 95°6 | 5 min 20sec 7 | | | |
| 9500 | 20ser | 30X | | |
| 3291 | 1 min | | | |
| 7256 | 71/2 min | | | |
| 0. 16 | 1 00 01/00 | with Kb dall | | |
| Rim 10 | m or com | M1411 - 0 4 4 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 | | |
| | 01 | | 00000 | |
| | VA | Idd Porca |) Volum | ne l |
| | | 13% PES-1 | 1.6HNac | 12 |
| | OP | to Det on Co | e 15r | nu |
| 117 300 | us a Sue l | a sin ic |) rom | <u> </u> |
| Dies | select pl | ightly | | |
| Peace | spen Q in | 050/ml 16 | | +++ |
| | | | | |
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